



IEC 60870-5-104

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In electrical engineering and power system automation, the International Electrotechnical Commission 60870 standards define systems used for telecontrol (supervisory control and data acquisition).

Such systems are used for controlling electric power transmission grids and other geographically widespread control systems.

By use of standardized protocols, equipment from many different suppliers can be made to interoperate. IEC standard 60870 has six parts, defining general information related to the standard, operating conditions, electrical interfaces, performance requirements, and data transmission protocols.

- Quote from [Wikipedia page on ISO/IEC 60870](#)

IEC 60870-5-104 Source Code Library now supports Secure Authentication(IEC/TS 60870-5-7:2013).

IEC/TS 60870-5-7:2013(E) describes messages and data formats for implementing IEC/TS 62351-5 for secure authentication as an extension to IEC 60870-5-101 and IEC 60870-5-104.



Salient Features

- Written in ANSI-Standard C Source Code, under a strict corporate coding standard, and supports C++, C#
- Can be used with or without a Real Time Operating System (RTOS).
- Transparent licensing scheme - No hidden costs, No deferred payments.
- High performance, robust and scalable architecture
- Provides a simple method for systems Integrators and OEMs to utilize standard tools to implement their systems
- Our stacks are fully compliant with "POSIX" and tested in ubuntu, feroda, Debian, QNX, Linux Embedded OS and Various Cross compiler tool chains.
Our all protocol stack supports "POSIX compliant operating system"
- Context-based event-driven model
- Multiple Server and Client Simulation
- In a Single Server(link) simulate Multiple Stations (Common Address)

- Supports Background Scan, Cyclic Data Transmission, Double Transmission, Redundancy and File transfer.
- Communication with redundant control systems and interruption-free switch over between redundant systems
- Supports "Select-Before-Operate" and "Direct-Execute" command execution modes
- In IEC 60870-5-104 Client Side, Data Mode and Test mode connection type available.
- Our IEC 104 Library supports Cyber-security Features, based on IEC 62351 security standard (Parts 3, 5, and 8)



IEC 60870-5-104 Server
Simulator



IEC 60870-5-104 Client
Simulator



IEC 60870-5-104 Windows
Software Development
Kit(SDK)



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Licensing

Source Code License model:

In this License model, We deliver complete source code of the protocol implementation according to the customer specified operating system(Windows, Linux, QNX...).

Customer may embed the library into unlimited copies of Multiple end-use products for worldwide manufacturing, branding and distribution. Original equipment manufacturers choose this model. They usually have multiple products in their pipeline.

Compiled Library License model:

In this License model, We deliver Dynamic/ Static compiled library (dll / lib) of the protocol implementation according to the customer specified operating system(Windows, Linux, QNX...).

Customer may embed the library into unlimited copies of Multiple end-use products for worldwide manufacturing, branding and distribution. Original equipment manufacturers choose this model. They usually have multiple products in their pipeline.

You can also try our IEC 60870-5-104 Server Simulator, Client Simulator, IEC 60870-5-104 Windows SDK and IEC 60870-5-104 Linux SDK

For more details, Contact Us : [Contact](#)

Customer Quotes

Edward Li

It has been a pleasure to work with FreyrSCADA. Pricing is competitive, and most importantly, the service and delivery have allowed us to meet our design demands. Integration was seamless.

B.Tech Inc

Thanks for your professional works. It's has been very use full to us. We saved a lot of hours by using your libraries.

Active Sensors

I did not run into any issues. The port went well. Using MMPL to poll data from competitor's instruments and converting the data to be used by our battery management software.

Knowledge Base

Interoperability:

[IEC 60870-5-104 Server Interoperability](#)

[IEC 60870-5-104 Client Interoperability](#)

Video Tutorial:



FreyrSCADA



Embedded Solution



ABOUT

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